

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/007640

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B60T7/02 B60T7/04 B60T7/10 B60T13/74 B60T11/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60T F16D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/108816 A1 (TANIGUCHI MAKOTO) 15 August 2002 (2002-08-15) abstract; figures 3,4,7,9 -----	1,3-10
X	US 5 590 744 A (BELMOND JEAN-MARC) 7 January 1997 (1997-01-07) abstract; figures 1,5,6 -----	1,2
X	US 6 244 394 B1 (GUTIERREZ CARMELO ET AL) 12 June 2001 (2001-06-12) abstract; figures 2,3,5 -----	1,2
A	JP 2000 309255 A (NIPPON CABLE SYST INC) 7 November 2000 (2000-11-07) abstract; figure 9b ----- -/--	1,4,5, 7-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

14 February 2005

Date of mailing of the international search report

15. 03. 2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/020591 A1 (SCHANZENBACH MATTHIAS ET AL) 21 February 2002 (2002-02-21) abstract column 1, paragraph 18 -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members*

International Application No

PCT/EP2004/007640

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002108816 A1	15-08-2002	JP 2002242968 A CA 2369338 A1 DE 10202730 A1	28-08-2002 26-07-2002 26-09-2002
US 5590744 A	07-01-1997	FR 2726525 A1 DE 69514196 D1 DE 69514196 T2 EP 0710595 A1 JP 8295210 A	10-05-1996 03-02-2000 29-06-2000 08-05-1996 12-11-1996
US 6244394 B1	12-06-2001	DE 19755933 C1 BR 9807401 A DE 59802146 D1 DE 59803195 D1 WO 9930939 A1 WO 9930940 A1 EP 0975497 A1 EP 0975498 A1 ES 2168808 T3 ES 2173671 T3 JP 2001513179 T	12-08-1999 14-03-2000 20-12-2001 04-04-2002 24-06-1999 24-06-1999 02-02-2000 02-02-2000 16-06-2002 16-10-2002 28-08-2001
JP 2000309255 A	07-11-2000	NONE	
US 2002020591 A1	21-02-2002	DE 10035220 A1 JP 2002070901 A	31-01-2002 08-03-2002